

Title (en)
METHOD OF PLACING A COMPONENT ON A SUBSTRATE AND COMPONENT PLACEMENT MACHINE FOR CARRYING OUT THE METHOD

Title (de)
BESTÜCKUNGSVERFAHREN VON BAUELEMENTEN AUF EINEM SUBSTRAT UND BESTÜCKAUTOMAT DAFÜR

Title (fr)
PROCEDE POUR PLACER UN COMPOSANT SUR UN SUBSTRAT ET MACHINE DE PLACEMENT DE COMPOSANT POUR REALISER CE PROCEDE

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Application
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Abstract (en)
[origin: WO9738567A1] The invention relates to a method of and a component placement machine for placing a component (10) onto a substrate (7), in which, after a component has been picked up by a placement head (6) secured to an arm (5) of a robot (2), the component is moved into an image field (18) of a stationary first imaging device (12) and the component is imaged, after which a second imaging device (13), which is also secured to said arm (5) of the robot, images a mark (21) of the substrate (7), subsequently the positions of the component and the position where the component is to be placed onto the substrate are calculated from the resulting image data, and finally the placement head places the component onto the substrate at the desired position. During imaging of the component (10), in order to compensate for inaccuracies in the distance between the placement head and the second imaging device, the first imaging device (12) also images at least one mark (16) situated on a reference plate (14) and at the same time the second imaging device (13) images a second mark (17) on the reference plate, after which the position of the component (10) relative to the second imaging device (13) is calculated from the resulting image data.

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Cited by
DE102004055719B4; DE102004045742B3; CN101868140A; NL1036851C2; DE102008049539A1; DE102007043868A1; EP2037725A2; US10217675B2; US10672672B2; US10991632B2; DE102010013164A1; US8341827B2; US9009957B2; EP2807905B1

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